MICHAEL FRAMAN
(949) 800-9052 | michaelframan@gmail.com | San Diego, CA, Open to Relocation

EDUCATION

UCLA SAMUELI SCHOOL OF ENGINEERING Los Angeles, CA
M.S. Engineering, *Specialization in Product Management* 06/2027

PURDUE UNIVERSITY West Lafayette, IN
B.S. Mechanical Engineering, *Presidential Scholar, Dean's List x8, 8 Completed Design Projects* 05/2022

EXPERIENCE

GENERAL ATOMICS- *Global defense technology developer* San Diego, CA
Manufacturing Product Engineer II — Technical Lead, EMALS 08/2023 – Present

- Managed a capacity plan on the Electromagnetic Aircraft Launch System (EMALS) after collecting requirements from the customer and future delivery schedules, achieving 100% on-time delivery across the program.
- Authored technical proposals from inception through completion for two deployed aircraft carriers and five future programs, prioritizing requirements and delivering within budget and schedule.
- Identified a systematic gap across 100+ engineering drawings and orchestrated a cross-organizational Design for Manufacturability initiative to partner and build consensus across teams, reducing defects on projects by 25%.
- Generated new tooling and fixturing for bottleneck processes based on feedback from operators, allowing for the workforce to improve productivity by 20%, increasing company profit and reducing overhead.

Manufacturing Product Engineer I 08/2022 – 08/2023

- Identified gaps in existing tracking system and drove the implementation of an AI-driven interdisciplinary system covering multiple projects with varying contractual requirements, iterating on the tool based on user feedback.
- Recognized a lack of second source vendors across a product line and established an initiative to provide more options to the program, gaining senior buy-in and improving efficiency across the production cycle by 50%.
- Spearheaded a cross-functional continuous improvement effort to establish new processes on filing reports on defects across a variety of departments to reduce repeated efforts by 10% and improve communication.
- Led technical evaluations and financial model analyses on proposals to support negotiations on supplier contracts exceeding $60M and customer contracts exceeding $5B, providing the company fixed work for 10+ years.

Manufacturing Product Engineer Intern 06/2021 – 08/2021

- Piloted a new digital work-instruction system, replacing paper-based processes both in office and on the manufacturing floor, reducing overhead hours and downtime by 30%.
- Redesigned a full subassembly in response to real time field failures observed at the Naval test site, including implementation in previously deployed ships as well as future production, improving end-user efficiency by 10%.

PROJECTS

- Identified a future customer need for increased capacity and efficiency based on proposed contracts to develop a capacity planning project using data at 3 key vendors, increasing overall efficiency within the current supply base by 75% without introducing new suppliers requiring higher upfront costs.
- Developed a solar tracker to install at schools by partnering with an organization in Kenya, increasing output from fixed solar panels by 40% while keeping equipment and install costs low to meet the needs of the community.
- Built a space-rated automated farming robot using machine learning based on consumer psychology reports at NASA and SpaceX for use on future missions, showcasing the potential for robotics in the space domain.

ADDITIONAL

- Skills: SolidWorks, CATIA, Creo, Agile, SQL, Python, GD&T per ASME Y14.5M, FMEA, PEO Software, SAP Program, PDL/PLM Systems, Microsoft Office Suite, including Excel and Project,
- Interests: Traveling, hiking and backpacking, beach volleyball, soccer, performing arts, cooking